

Law as Platform: LegalXML Standards, Legal Analytics, AI, LLM *online*

September 7, 2024

Online and onsite via Oberdan 1, Ravenna

12:45 – 13:00 in Bologna/6:45 am – 7:00 am in Washington, D.C.



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For more information:
USGPO.GITHUB.IO/INNOVATION/

2023 Words of the Year

AI
HALLUCINATE
AUTHENTIC

AI: a term that describes ‘**the modelling of human mental functions by computer programs**’ is Collin’s dictionary word of the year

HALLUCINATE: the Cambridge Dictionary’s word of the year and describes “**when an artificial intelligence hallucinates, it produces false information**”

AUTHENTIC: Merriam-Webster’s Dictionary says, “*Authentic* has several meanings including “**not false or imitation,**” a **synonym of *real* and *actual***; and “**true to one’s own personality, spirit, or character.**” A high-volume lookup most years, authentic saw a substantial increase in 2023, driven by stories and conversations about AI, celebrity culture, identity, and social media.

Sources:

<https://www.collinsdictionary.com/woty>

<https://dictionary.cambridge.org/us/editorial/woty>

<https://www.merriam-webster.com/wordplay/word-of-the-year>

The U.S. House and AI Guardrails

- Human Oversight and Decision-Making
- Clear and Comprehensive Policies
- Robust Testing and Evaluation
- Transparency and Disclosure
- Education and Upskilling

More information:

<https://cha.house.gov/modernization>



COMPARATIVE PRINT SUITE

Changes to existing law

What do the Natural
Language Processors
need to do?

- Recognize
- Interpret
- Retrieve
- Execute

Section 704 of the Homeland Security Act of 2002

(6 U.S.C. 344) is amended—

(1) in subsection (b)—

(A) in paragraph (1)—

(i) by inserting “, including with respect to leader development and employee engagement,” after “policies”;

(ii) by striking “and in line” and inserting “, in line”; and

(iii) by inserting “and informed by best practices within the Federal government and the private sector,” after “priorities,”;

Challenges: Finding provisions in Federal Law

No single unified code

Draft to several sources

- U.S. Code
- Statutes at Large
- Statute Compilations
- Other law (Revised Statutes of the United States, Uniform Code of Federal Evidence, Tariff Tables,...)

No single effective date; conditional effective dates

TRUST

- Drafter: Improves QA/QC while drafting
- Member: Can visually see the current law
- The Public: provides transparency and further insight on the Rule of Law
- Machine Learning: Hand-crafted semantics for our domain



The user notification system

If the changes to the existing law cannot be executed

- due to a drafting error,
 - an error in the current law dataset, or
 - an error in the solution itself (*unsupported instruction, something else*).
- It also alerts the user to when an amendment proposed in the bill has already been executed into current law.

Bill to bill differences

“(b) Chair; Membership.—The Administrator shall designate a representative to serve as the Chair of the advisory board. In addition to the Chair, the membership of the advisory board shall include ~~the Director of the Office of Personnel Management;~~—

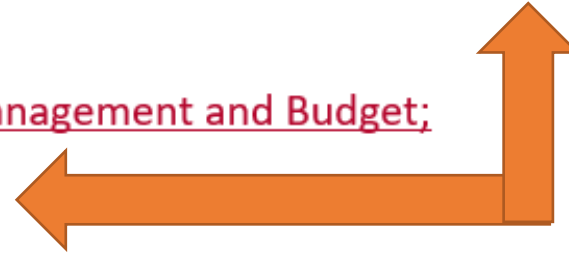
“(1) the Deputy Director for Management of the Office of Management and Budget;

“(2) the Director of the Office of Personnel Management;

“(3) the Administrator of the Office of Electronic Government of the Office of Management and Budget;

“(4) the Assistant to the President and Chief Technology Officer; and

“(5) other individuals as may be designated by the Administrator.



Changes and Differences

Comparison variation one

“(b) Chair; Membership.—The Administrator shall designate a representative to serve as the Chair of the advisory board. In addition to the Chair, the membership of the advisory board shall include—

“(1) the Deputy Director for Management of the Office of Management and Budget;

“(2) the Director of the Office of Personnel Management;

“(3) the Administrator of the Office of Electronic Government of the Office of Management and Budget;

“(4) the Assistant to the President and Chief Technology Officer; and

“(5) other individuals as may be designated by the Administrator.

Changes and Differences

Comparison variation two

Demonstration

Q&A/Discussion

Resources

<https://usgpo.github.io/innovation/>

Thank you

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